26 SHEETS

CONTRACT NO. 60E10

## GENERAL NOTES

Fasteners shall be high strength bolts. Bolts  $^{7}_{8}$  " $\phi$ , open holes 15,6 "\$, unless otherwise noted.

Calculated weight of M270 Gr. 36 (ASTM A709 Gr. 36) Structural Steel = 124,910 Pounds.

Calculated weight of M270 Gr. 50 (ASTM A709 Gr. 50) Structural Steel = 488,830 Pounds.

Field welding of construction accessories will not be permitted to beams or girders.

Anchor bolts shall be set before bolting diaphragms over supports.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.

All Construction joints shall be bonded.

The back face of closed abutments and their wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.

Concrete Sealer shall be applied to the seat area of the abutments and pier.

Reinforcement bars designated (E) shall be epoxy coated.

The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be reddish brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures".

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall provide all calculations required for Braced Excavation. See Special Provision for BRACED EXCAVATION.

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## TOTAL BILL OF MATERIAL

Structure Excavation Concrete Structures	Cu. Yd. Cu. Yd.		756	700
Concrete Structures				756
	0 1/ 1		1171.9	1171.9
oncrete Superstructure	Cu. Yd.		647.2	647.2
	Cu. Yd.	158.0		158.0
Furnishing and Erecting Structural Steel	L Sum	0.27		0.27
Reinforcement Bars	Pound		22,260	22,260
Reinforcement Bars, Epoxy Coated	Pound	23,420	169,070	192,490
Pipe Handrail, Special	Foot	142		142
lame Plates	Each		1	1
Anchor Bolts, 1 1/4"	Each		136	136
lembrane Waterproofing (Special)	Sq. Ft.	5,422		5,422
Concrete Sealer	Sq. Ft.		600	600
Seocomposite Wall Drain	Sq. Yd.		162.5	162.5
lon-Special Waste Disposal	Cu. Yd.		1954.4	1954.4
Braced Excavation	Cu. Yd.		814.2	814.2
Orilled Shaft in Soil	Cu. Yd.		435	435
Prilled Shaft in Rock	Cu. Yd.		39	39
Permanent Steel Sheet Piling	Sq. Ft.		1,036	1,036
emporary Jump Span	L Sum	1		1
Bridge Deck Tie Support System	L Sum	1		1
emporary Removable Walkway System for SN 016-2819 Construction	L Sum	1		1

DESIGNED MDS CHECKED JPB MDS

HECKED JPB

URS South Wacker Sulte 500 Chicago, IL 60606

ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 FROM I-294 TO IL RTE 1

GEN. NOTES, INDEX OF SHTS. & TOTAL BILL OF MATERIAL

CN THOROUGHFARE TRACK
BRIDGE 20.6E OVER U.S. RTE. 6 (159TH STREET)

STATION 96+36.66 STRUCTURE NO. 016-2822 SCALE: N.T.S. DATE: 2/21/2008